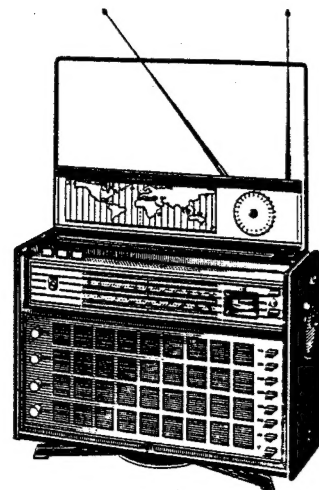


PHILIPS *Service*

RADIO

22RL798/15



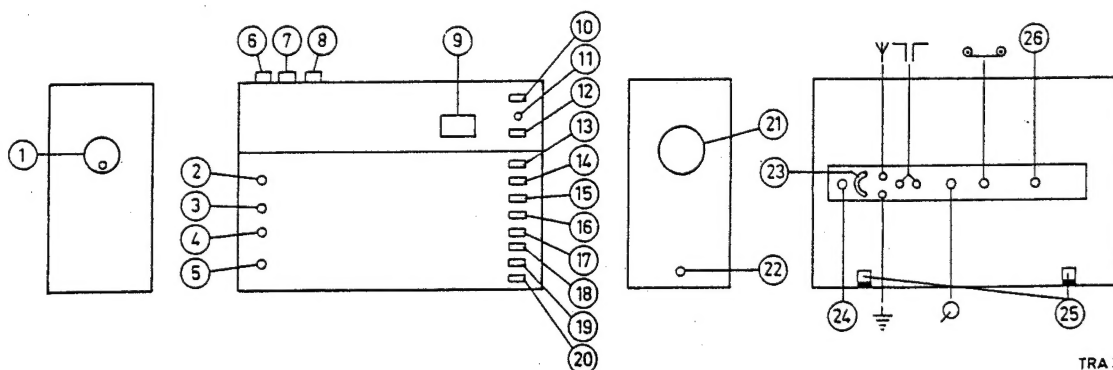
1	Tuning FM	S308/S311	10	PU switch	SK-K	18	MW switch	SK-E
2	Volume control	R415	11	On-off indication		19	LW switch	SK-F
3	High notes	R414	12	On-off switch	SK-P	20	Aerial switch	SK-G
4	Low notes	R416	13	FM switch	SK-H	21	Tuning AM	C410
5	Fine tuning	R413	14	SW1 switch	SK-A	22	Car aerial	
6	AFC	SK-L	15	SW2 switch	SK-B	23	Aerial selector switch	SK-R
7	Battery check	SK-M	16	SW3 switch	SK-C	24	External supply	
8	Scale illumination	SK-N	17	SW4 switch	SK-D	25	Lock of rear cover	
9	Tuning indicator	Ind.				26	Earphone connection	

SPECIFICATION

Loudspeaker	4 Ω
IF-AM	470 kHz
IF-FM	10,7 MHz
Battery voltage	9 V (6x1,5 V)
Consumption (without signal)	21 mA (AM) 22 mA (FM)
Output	1 W
Dimensions	370x255x120 mm

WAVE RANGES

LW	: 150 - 415 kHz	(2000 - 725 m)
MW	: 517 - 1622 kHz	(580 - 185 m)
SW4	: 1,6 - 4,2 MHz	(187 - 71,4 m)
SW3	: 4,2 - 8 MHz	(71,4 - 37,5 m)
SW2	: 8 - 16 MHz	(37,5 - 18,75 m)
SW1	: 16 - 27 MHz	(18,75 - 11,1 m)
FM	: 87,5 - 108 MHz	



TRA 3486

COMBINED ELECTRONIC SERVICES LTD.

QUEENSWAY WADDON FACTORY ESTATE CROYDON CR9 4DR

TELEPHONES :

Spare part orders: 01-686 7311

After business hours: Recorded messages on both lines

General service enquiries: 01-688 7722

TELEX: 262308

Index: GS21889-CS21895

SERVICE INFORMATION										
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The use of the aerials

- Ferroceptor** : is used for the reception of LW and MW. It is also used for determining the direction of LW and MW (sounding). If the ferroceptor axis, which is also the longitudinal axis of the apparatus, points in the direction of the transmitter the reception is minimal.
- Frame aerial** : is used for the reception of SW1-2-3-4. It is also used for determining the direction of SW1-2-3-4 (sounding). If the plane of the frame (the short axis of the apparatus) points in the direction of the transmitter the reception is minimal.
- Outdoor aerial** : is used for the reception of weak stations on LW, MW and SW1-2-3-4. When the outdoor aerial is used the ferroceptor should be switched off.
- Car aerial** : is used for the reception of FM, LW, MW and SW1-2-3-4. When it is used, SK-R, 2-3 should be interconnected for the reception of FM, whereas for the reception of LW and MW the ferroceptor should be switched off.
- Dipole aerial** : is used for the reception of FM, and, because of its working as a normal aerial, it can also be used to receive LW, MW and SW1-2-3-4. For reception of LW, MW and SW1-2-3-4, SK-R, 2-3 should be interconnected and the ferroceptor should be switched off.
- Rod aerials** : these are used to receive FM. If SK-R, 2-3 are interconnected they can also be used to receive SW1-2-3-4 and, if the ferroceptor is switched off, MW and LW can also be received.

REMOVEMENT OF THE CABINET

Removing the back of the receiver

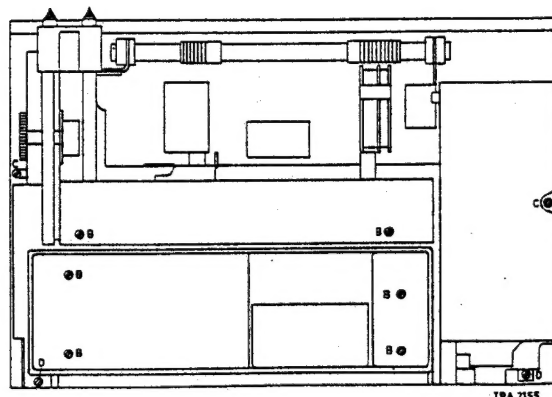
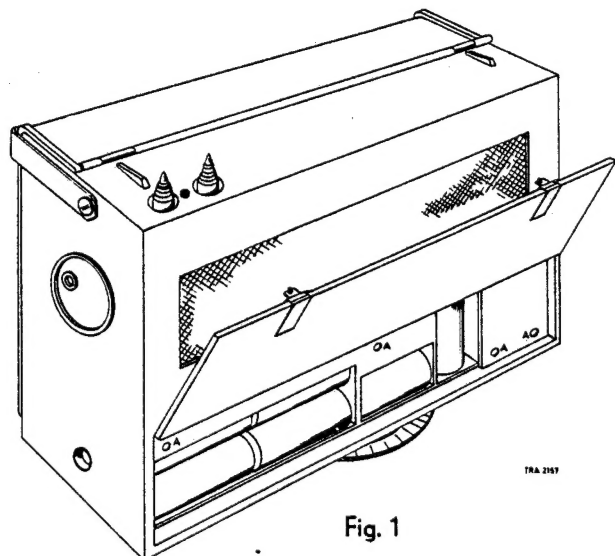
Remove the ornamental screw between the two telescopic aerial rods. Next, remove the battery lid. Unscrew the four screws A (see Fig. 1) Carefully lift the back in a slanting position.

Removing the battery holder

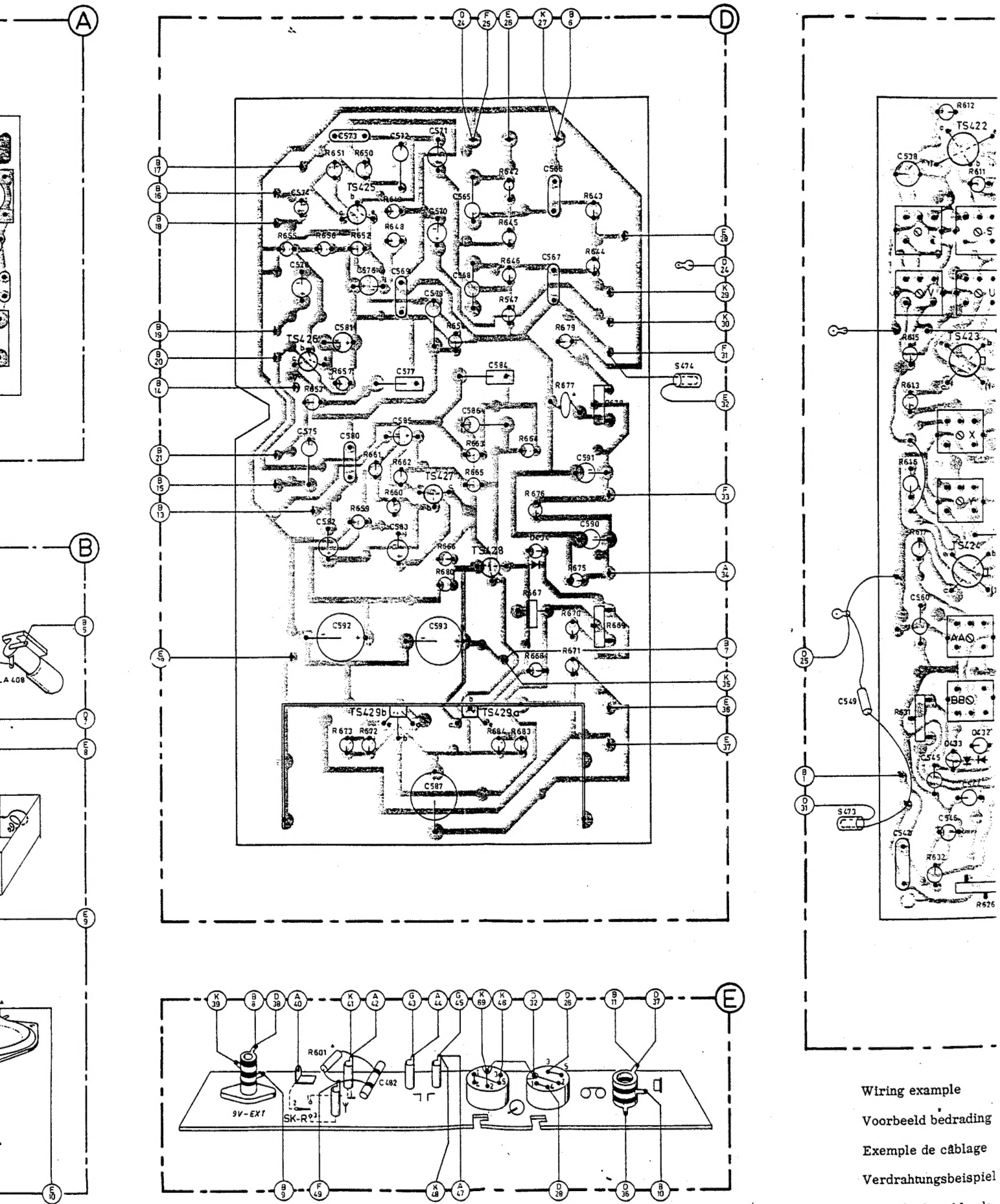
After having removed the back of the receiver, remove the six screws B, see Fig. 2. Slightly lift the battery holder and then remove it from the cabinet by carefully tilting it.

Removing the front (this can only be removed if the back has been removed)

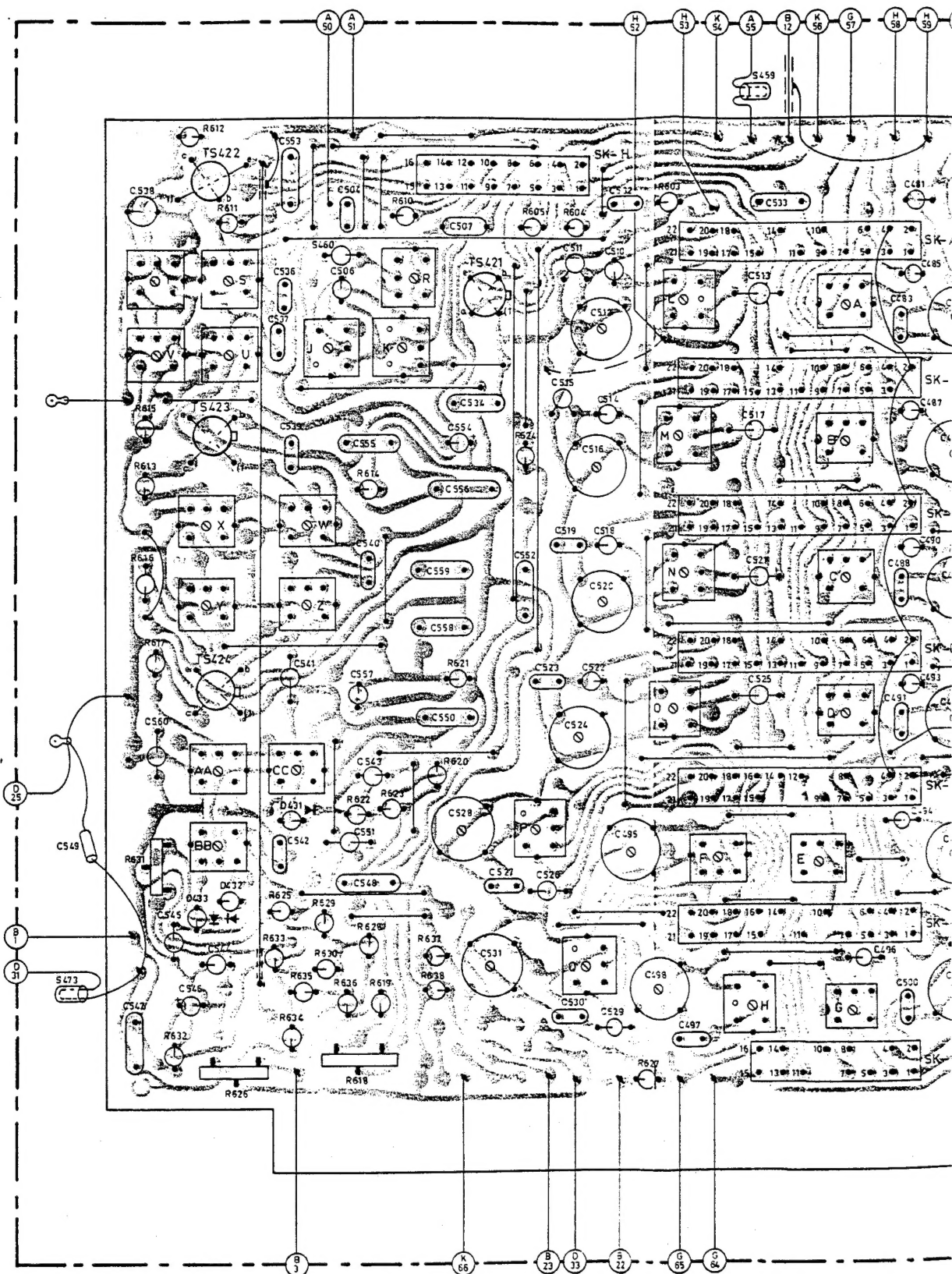
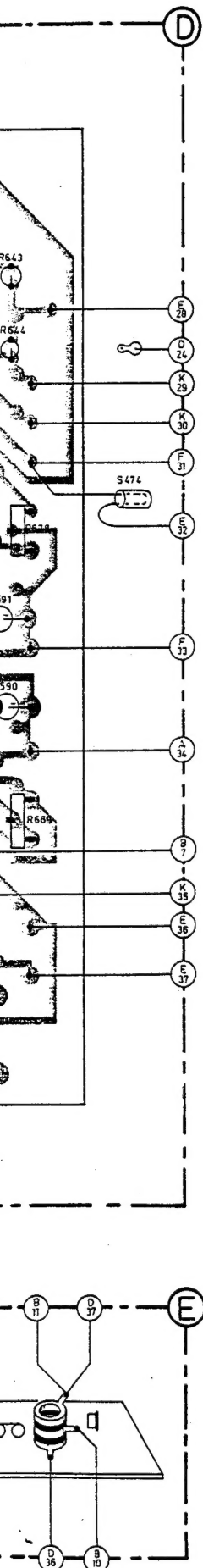
Remove the four metal knobs (vol, high, low, fine tuning) by pulling them forwards. Loosen screw C and unscrew screws D, see Fig. 2. Two clamping springs prevent screws C from falling down, Carefully hinge the front up.



336	574 578 573	576	568 572 570 571 579	585 568	566 567	474	473	T.V	X.Y.S.U	AA.BI
	575 592 580-581A2585	577 593	587 586	584	590 591			538		553
	555 656 651657652.648-650		658 645-647 642.577 679.643.644	578				549.	560 544-547	
	651 601673672.659-662		666 690.663-665.684.683.676.667-671.675					515. 516. 511-513.		
								617 531. 532. 526.		



474.	473.	T.V.	XY SU	AA BB	W Z CC	J	480.	K. R.	P	Q	LMNO	F	H 459	E	A B C D G
		538		553	536 537 539		504 506 555 540 507 534 554 556 552 559	510 - 512 532 514 - 516 518 - 520				513 533 517 52			481 483 - 485
591	549.	560 544 - 547.		541 542	551 557 543 548.	558.	550.	526 - 531	522 - 526	495 498 497.		525	496	491 - 494	499 - 501
678		615 616 611 - 613.		625.	610 614.	621.		605 624 604.			603.				
75.		617 631 632 626.		633 - 636	629 630 622 511 628 619 618	623	637 638 620.				627.				



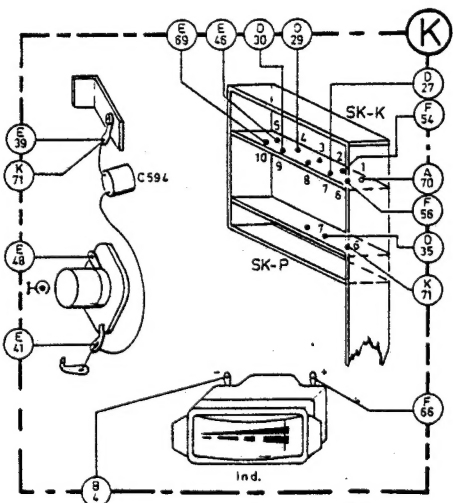
Wiring example : Wire (F1) (mentioned under unit B) leads to unit F, and is then mentioned (B1)

Voorbeeld bedrading : Draad (F1) (genoemd bij unit B) gaat naar unit F, en is daar (B1) genoemd

Exemple de câblage : Le fil (F1) (mentionné sous bloc B) va vers le bloc F, où il est indiqué sous (B1)

Verdrahtungsbeispiel : Draht (F1) (bei Einheit B genannt) führt nach Einheit F und wird dort als (B1) bezeichnet

Ejemplo de cableado : El hilo (F1) (mencionado en la unidad B) va hacia la unidad F y allí está marcada con (B1)

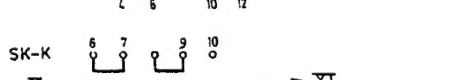
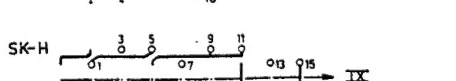
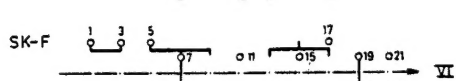
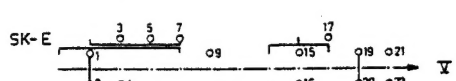
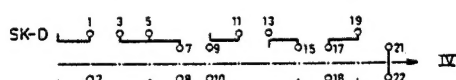
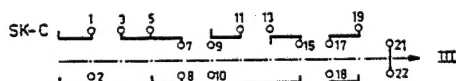
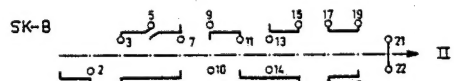
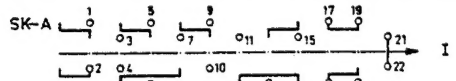
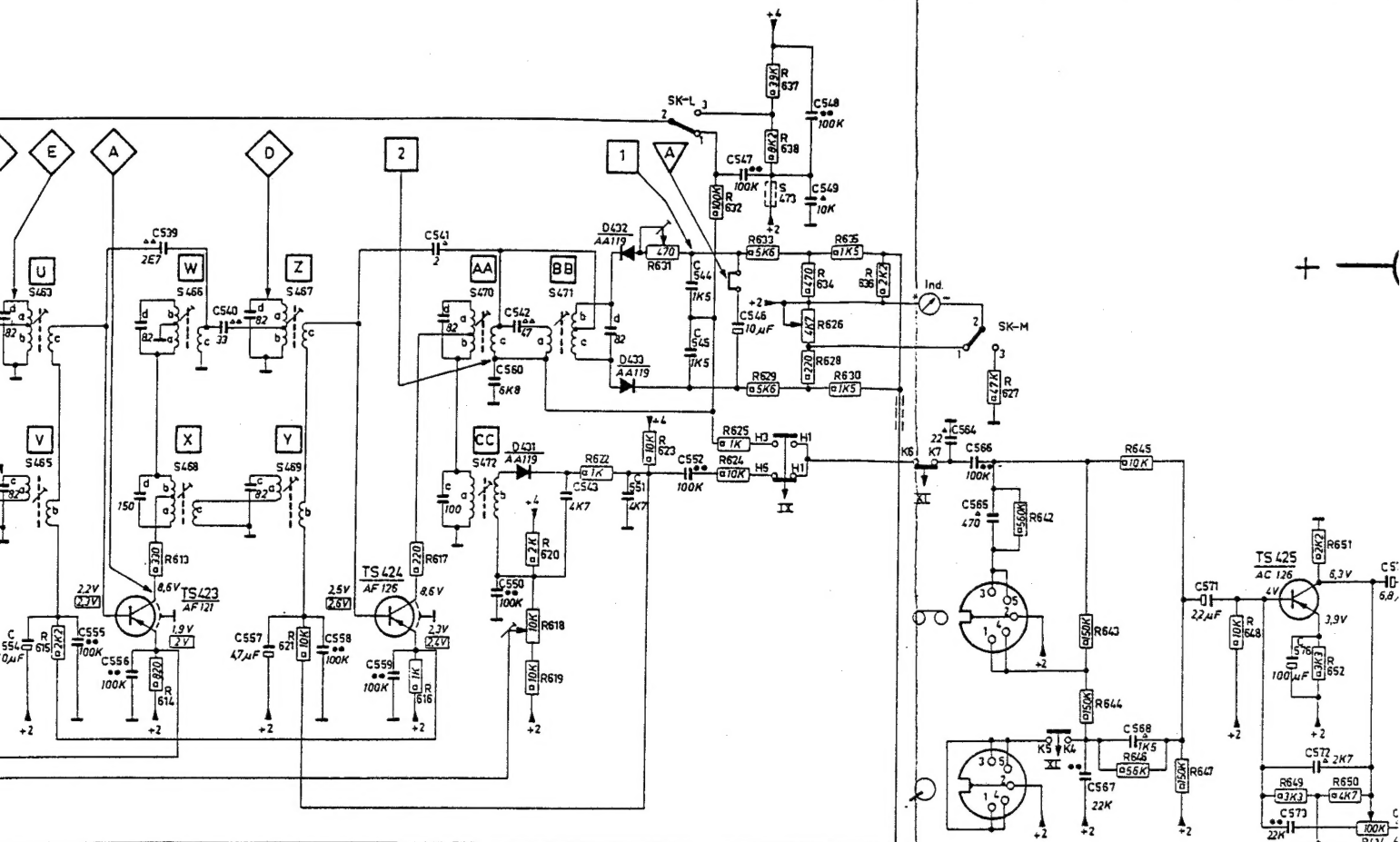


der unit B) leads to unit F, and is then mentioned (B1)
 unit B) gaat naar unit F, en is daar (B1) genoemd
 ous bloc B) va vers le bloc F, où il est indiqué sous (B1)
 B genannt) führt nach Einheit F und wird dort als (B1) bezeichnet
 o en la unidad B) va hacia la unidad F y allí está marcada con (B1)

The diagram illustrates a complex electronic circuit, likely a radio receiver or amplifier, featuring several vacuum tube sockets and a series of switch diagrams.

Key Components and Connections:

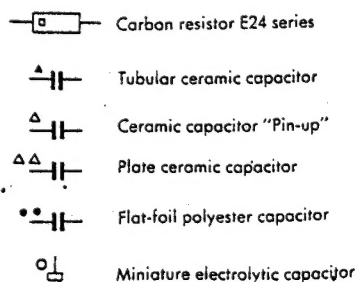
- Vacuum Tubes:** TS302 AF125, TS422 AF121/101, TS421 AF125, TS424 AF126, TS423 AF121.
- Capacitors:** C331, C336, C337, C339, C340, C342, C343, C344, C345, C346, C347, C348, C349, C350, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C364, C365, C366, C367, C368, C369, C370, C371, C372, C373, C374, C375, C376, C377, C378, C379, C380, C381, C382, C383, C384, C385, C386, C387, C388, C389, C390, C391, C392, C393, C394, C395, C396, C397, C398, C399, C400, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415, C416, C417, C418, C419, C420, C421, C422, C423, C424, C425, C426, C427, C428, C429, C430, C431, C432, C433, C434, C435, C436, C437, C438, C439, C440, C441, C442, C443, C444, C445, C446, C447, C448, C449, C450, C451, C452, C453, C454, C455, C456, C457, C458, C459, C460, C461, C462, C463, C464, C465, C466, C467, C468, C469, C470, C471, C472, C473, C474, C475, C476, C477, C478, C479, C480, C481, C482, C483, C484, C485, C486, C487, C488, C489, C490, C491, C492, C493, C494, C495, C496, C497, C498, C499, C500, C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549, C550, C551, C552, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C571, C572, C573, C574, C575, C576, C577, C578, C579, C580, C581, C582, C583, C584, C585, C586, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634, C635, C636, C637, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C652, C653, C654, C655, C656, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700, C701, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C757, C758, C759, C760, C761, C762, C763, C764, C765, C766, C767, C768, C769, C770, C771, C772, C773, C774, C775, C776, C777, C778, C779, C780, C781, C782, C783, C784, C785, C786, C787, C788, C789, C790, C791, C792, C793, C794, C795, C796, C797, C798, C799, C800, C801, C802, C803, C804, C805, C806, C807, C808, C809, C810, C811, C812, C813, C814, C815, C816, C817, C818, C819, C820, C821, C822, C823, C824, C825, C826, C827, C828, C829, C830, C831, C832, C833, C834, C835, C836, C837, C838, C839, C840, C841, C842, C843, C844, C845, C846, C847, C848, C849, C850, C851, C852, C853, C854, C855, C856, C857, C858, C859, C860, C861, C862, C863, C864, C865, C866, C867, C868, C869, C870, C871, C872, C873, C874, C875, C876, C877, C878, C879, C880, C881, C882, C883, C884, C885, C886, C887, C888, C889, C890, C891, C892, C893, C894, C895, C896, C897, C898, C899, C900, C901, C902, C903, C904, C905, C906, C907, C908, C909, C910, C911, C912, C913, C914, C915, C916, C917, C918, C919, C920, C921, C922, C923, C924, C925, C926, C927, C928, C929, C930, C931, C932, C933, C934, C935, C936, C937, C938, C939, C940, C941, C942, C943, C944, C945, C946, C947, C948, C949, C950, C951, C952, C953, C954, C955, C956, C957, C958, C959, C960, C961, C962, C963, C964, C965, C966, C967, C968, C969, C970, C971, C972, C973, C974, C975, C976, C977, C978, C979, C980, C981, C982, C983, C984, C985, C986, C987, C988, C989, C990, C991, C992, C993, C994, C995, C996, C997, C998, C999, C1000, C1001, C1002, C1003, C1004, C1005, C1006, C1007, C1008, C1009, C1010, C1011, C1012, C1013, C1014, C1015, C1016, C1017, C1018, C1019, C1020, C1021, C1022, C1023, C1024, C1025, C1026, C1027, C1028, C1029, C1030, C1031, C1032, C1033, C1034, C1035, C1036, C1037, C1038, C1039, C1040, C1041, C1042, C1043, C1044, C1045, C1046, C1047, C1048, C1049, C1050, C1051, C1052, C1053, C1054, C1055, C1056, C1057, C1058, C1059, C1060, C1061, C1062, C1063, C1064, C1065, C1066, C1067, C1068, C1069, C1070, C1071, C1072, C1073, C1074, C1075, C1076, C1077, C1078, C1079, C1080, C1081, C1082, C1083, C1084, C1085, C1086, C1087, C1088, C1089, C1090, C1091, C1092, C1093,



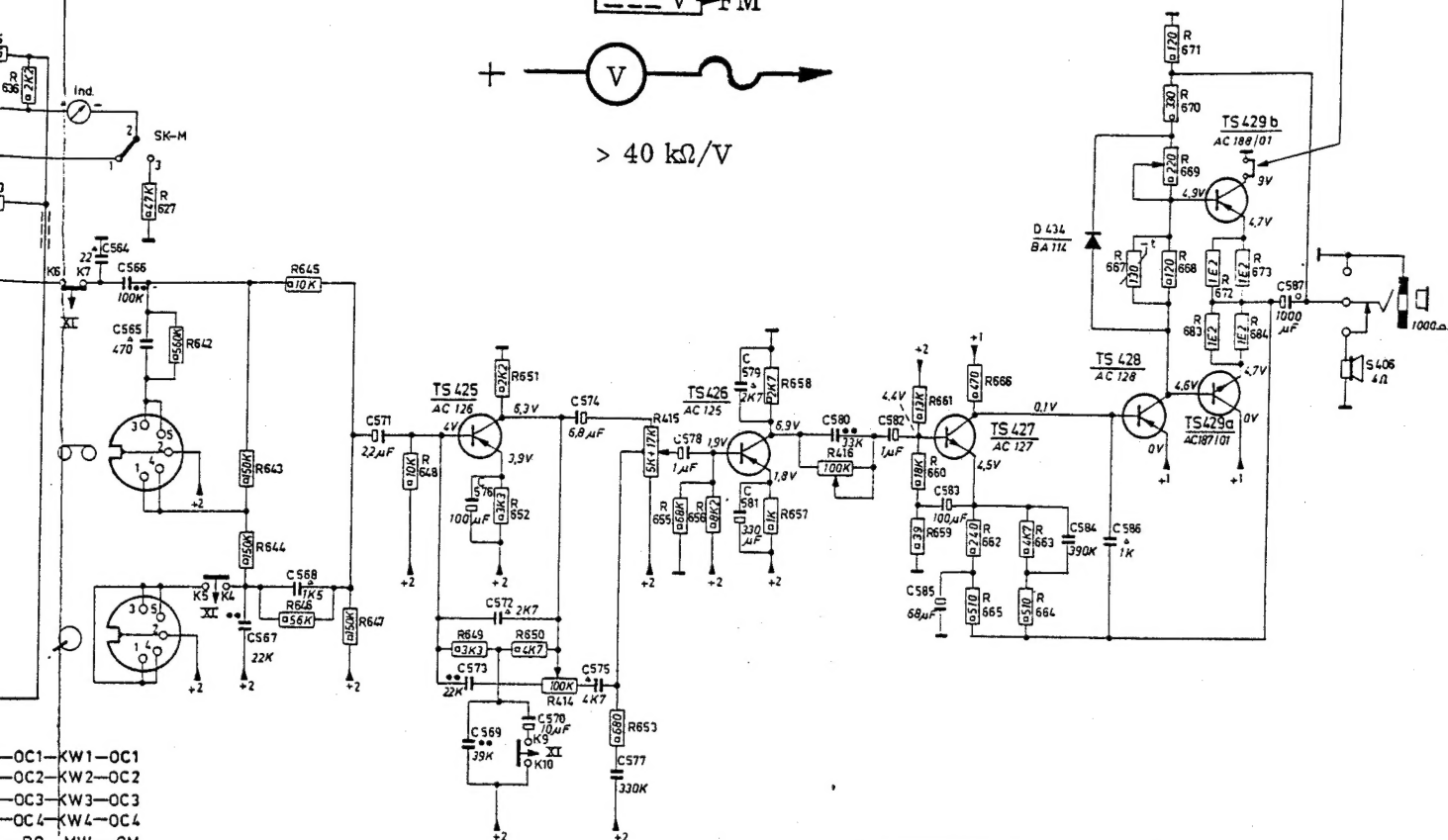
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II : SW2-KG2-OC2-KW2-OC2
III : SW3-KG3-OC3-KW3-OC3
IV : SW4-KG4-OC4-KW4-OC4
V : MW-MG-PO-MW-OM
VI : LW-LG-GO-LW-OL
VII : FERROC.
VIII : Y
IX : FM-UKW
X : RADIO
XI : PU-TA

	APC
	AFR
SK-L	CAF
	AFR
	CAF
	Battery check
	Batterijcontrole
SK-M	Contrôle de la pile
	Batterietestkontrolle
	Comprobación de la pila
	Dial illumination
SK-N	Dialverlichting
	Eclairage du cadran
	Skalenbeleuchtung
	Alumbrado del cuadrante
	Battery switch
	Batterijschakelaar
SK-P	Interrupteur de pile
	Batterieschalter
	Interruptor de pila
	Aerial switch
SK-R	Antenneschakelaar
	Commutateur d'antenne
	Antenneschalt
	Commutador de antena

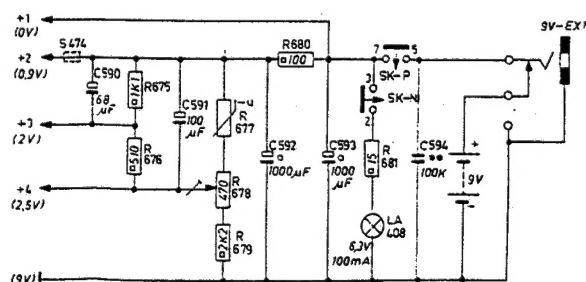
* FORMED BY THE WIRING
WORDT GEVORMD DOOR DE
CONSTITUE PAR LE CABLAG
WIRD DURCH DIE VERDRAHT
ES FORMADA POR EL CABLE









—OC1—KW1—OC1
—OC2—KW2—OC2
—OC3—KW3—OC3
—OC4—KW4—OC4
—PO—MW—OM
—GO—LW—OI



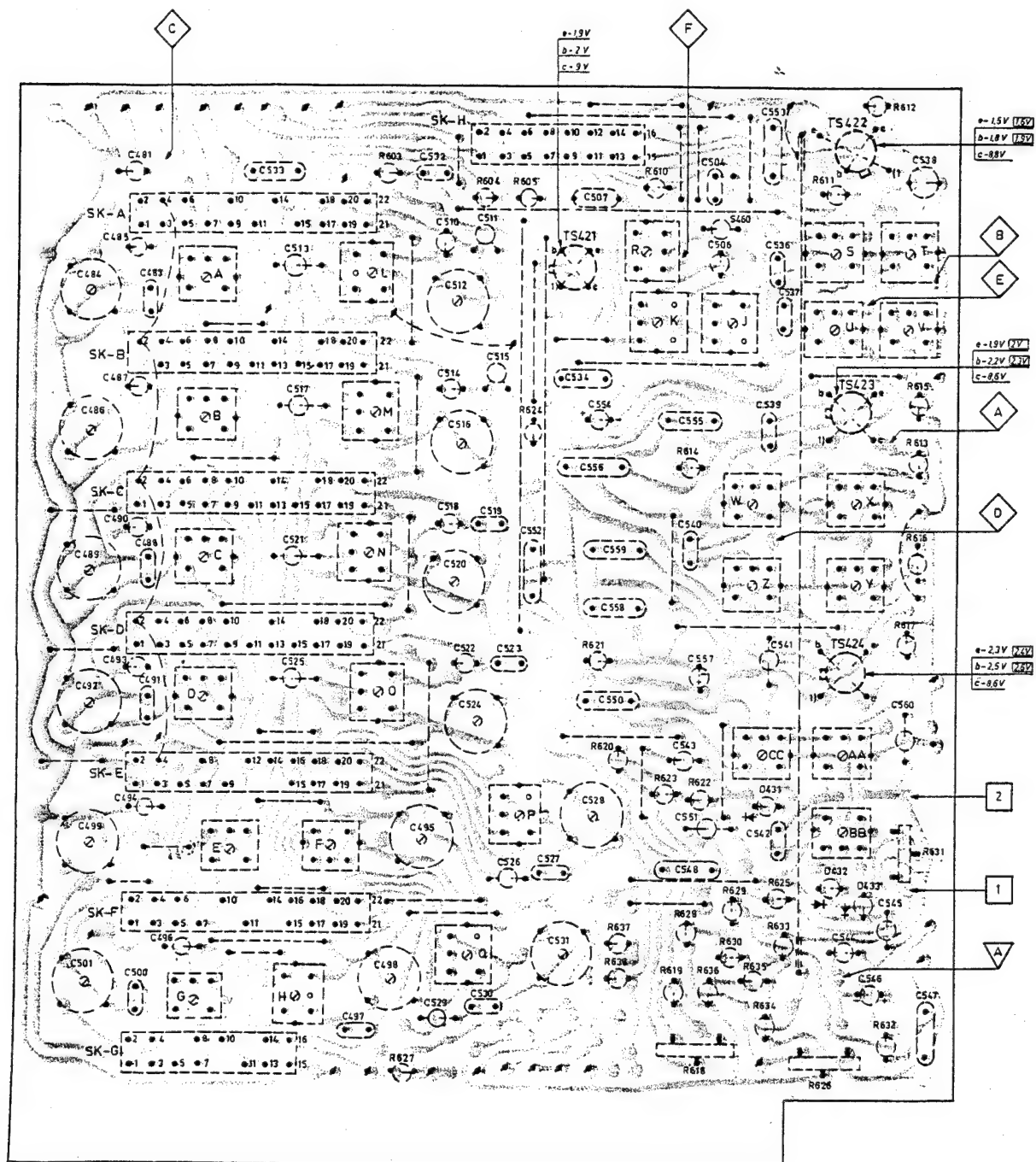
y check
tjcontrole
le de la pila
tekontrol
robación de la pila
lumination
verlichting
age du caran
beleuchtung
rado del cuadrante
y switch
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tuteur de pile
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aptor de pila
switch
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TRA 3418

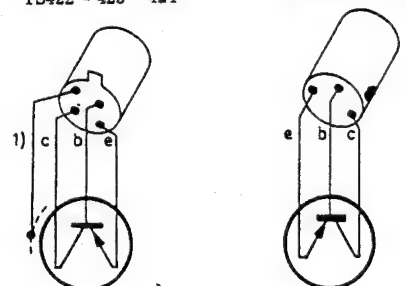
- | | | | |
|---|----------------------------------|---------|----|
|  | Carbon resistor E24 series | 0.125 W | 5% |
|  | Tubular ceramic capacitor | 500 V | |
|  | Ceramic capacitor "Pin-up" | 500 V | |
|  | Plate ceramic capacitor | | |
|  | Flat-foil polyester capacitor | | |
|  | Miniature electrolytic capacitor | | |

S	A B C D E	F G H I J K L M N O	P	Q R	S T U V W X Y Z AA BB	
C	484-490 481 483 494	533 513 517 521	532 510-512 514-516 518-520 552 534 556 507 554	555 506 540 504	553 537 536	538
C	492 499-501 493 491 496	525 497	498 495 529 522-524 530	526 527 531 528 558 559 550 543 548 557 551 539 541 542	544 546 545 560 547	
R		603	604 605	620	610 614 623 627 630 625 623-625	611 612 617 515 613 616
R		627		624 621	637 638 636 619 628 629	626 632 631

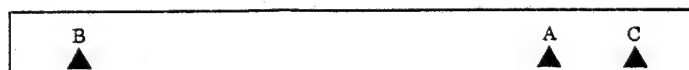


TS301 - 302 - 421
TS422 - 423 - 424

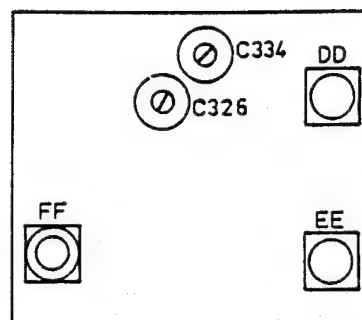
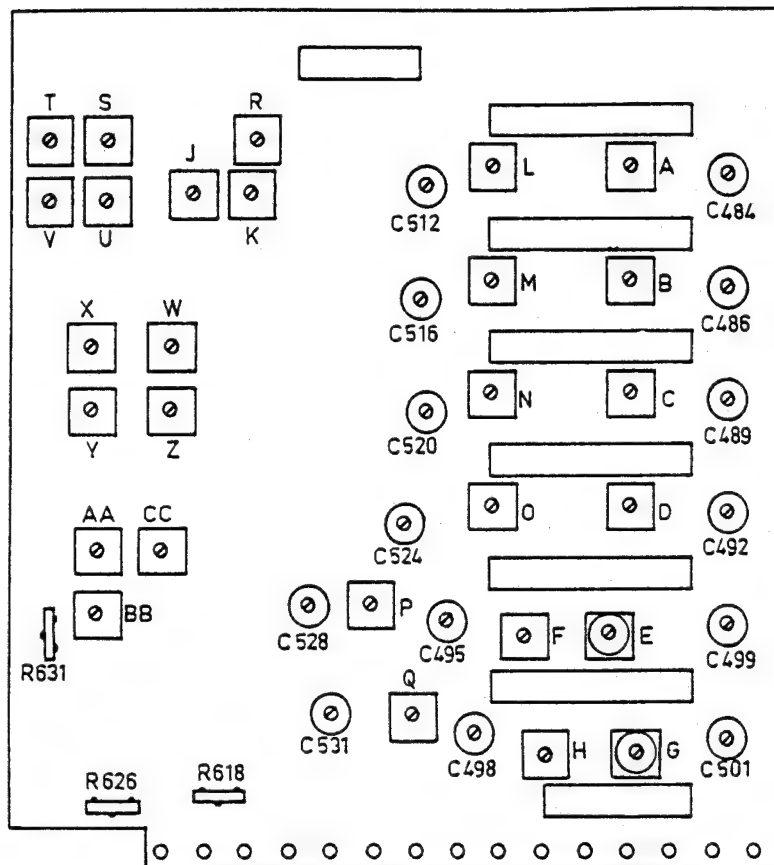
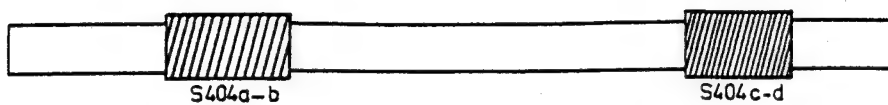
TS425 - 426 - 428



	Push button	Signal	Apply to	Trimming point	Adjust	Indication	
IF (AM)	MW + Ψ (SK-E+G)	① 470 kHz via 33 kpF	⬡A	Minimum cap.	⬡CC	Max. output	
			⬡B		⬡Y , ⬡X		
			⬡C		⬡V , ⬡T		
					⬡K , ⬡J	Min. output	
RF (AM)	LW (SK-F)	157 kHz	②	A	⬡Q , S404c/d	Max. output	
	MW (SK-E)	550 kHz		A	⬡P , S404a/b		
	SW4 (SK-D)	1,66 MHz	③	A	⬡O , ⬡D		
	SW3 (SK-C)	4,32 MHz		A	⬡N , ⬡C		
	SW2 (SK-B)	8,06 MHz		A	⬡M , ⬡B		
	SW1 + Ψ (SK-A+G)	16,1 MHz	④	A	⬡L , ⬡A		
	SW1 + Ψ (SK-A+G)	26 MHz		B	C512, C484		
	SW2 (SK-B)	15 MHz	③	B	C516, C486		
	SW3 (SK-C)	7,83 MHz		B	C520, C489		
	SW4 (SK-D)	3,94 MHz		B	C524, C492		
	MW (SK-E)	1500 kHz	②	B	C528, C499		
	LW (SK-F)	393 kHz		B	C531, C501		
	LW + Ψ (SK-F+G)	157 kHz	④	Tune in	⬡H		
	MW + Ψ (SK-E+G)	550 kHz			⬡F		
	MW + Ψ (SK-E+G)	1500 kHz			C495		
	LW + Ψ (SK-F+G)	393 kHz			C498		
IF (FM)	FM+AFC(SK-H+L)	⑤ 10,7 MHz	⬡D	C	⬡AA	⑥	
			⬡E		⬡W , ⬡Z		
			⬡F		⬡S , ⬡U		
		10,7 MHz	⑤		⑦	⬡EE , ⬡R	⑨
			⑧			⬡BB	
			RF (FM)		FM+AFC(SK-H+L)	88 MHz	⑦
108 MHz	C334						
96 MHz	C326						



- ① Set the volume control to maximum. The signal applied should not be too strong in order to avoid overmodulation.
- ② Apply the signal via the coupling-coil of the ferroreceptor.
- ③ Apply the signal via the coupling-coil of the frame aerial.
- ④ Apply the signal via the outside aerial
- ⑤ The signal applied is FM-modulated (50 Hz) with a sweep of 200 kHz. Open bridge . Connect an oscilloscope via 100 k Ω to Damp S470c by means of a 1500 Ω resistor.
- ⑥ Adjust for maximum height and symmetry of the band-pass curve.
- ⑦ Apply the signal to the FM outside aerial
- ⑧ Apply the signal as under ⑤. Close bridge . Connect the oscilloscope via 100 k Ω to . Remove the damping resistor from S470c.
- ⑨ Adjust for maximum linearity and symmetry of the S-curve.



TRA 3434

Adjustment of the AM rejection

Apply a frequency modulated (50 Hz) signal of 10,7 MHz with a 200 kHz sweep to the FM outside aerial. This signal should also be AM modulated with 1 kHz. Connect an oscilloscope to point [2] via 100 kΩ. Adjust for maximum AM rejection with R631, i.e. adjust the S-curve so that its linearity is maximum and passes through zero.

Adjustment of the quiescent current

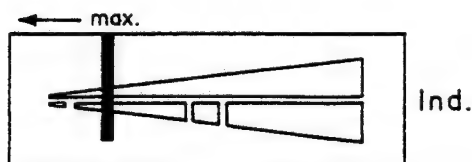
Turn volume control R415 fully anti-clockwise. Open bridge ∇B and connect an mA-meter across this bridge. Now close bridge ∇B .

Checking the battery-voltage indication

Connect the set to a 4.5 V supply voltage. Depress SK-M. Then the pointer of the indicator (Ind.) should be at the transition of the grey and the black section.

Adjustment of the indicator.

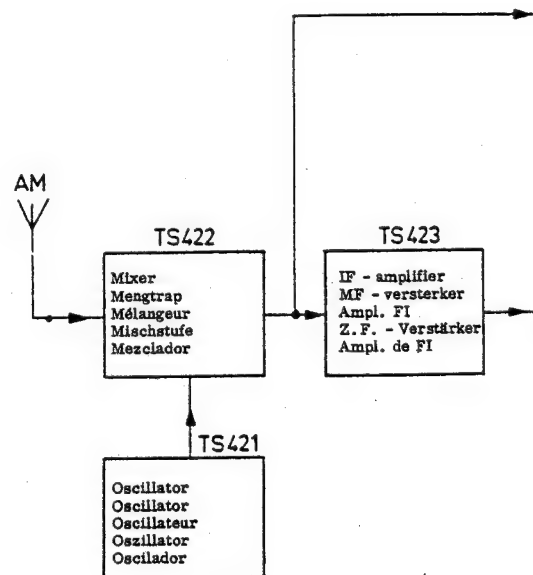
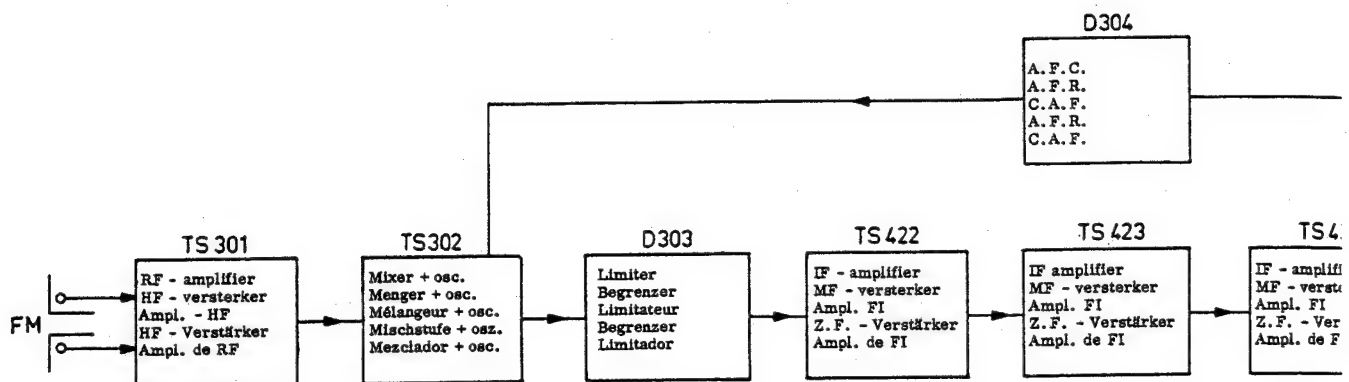
Set the receiver to position MW, outside aerial by depressing SK-E and SK-G. Adjust the indicator (Ind.) to maximum deflection of the pointer by means of R626, without applying a signal. Set the receiver to position FM by depressing SK-H. (Consequently, SK-G is depressed also in this case). Now the indicator (Ind.) is to be adjusted for maximum deflection of the pointer with R618, without applying a signal.

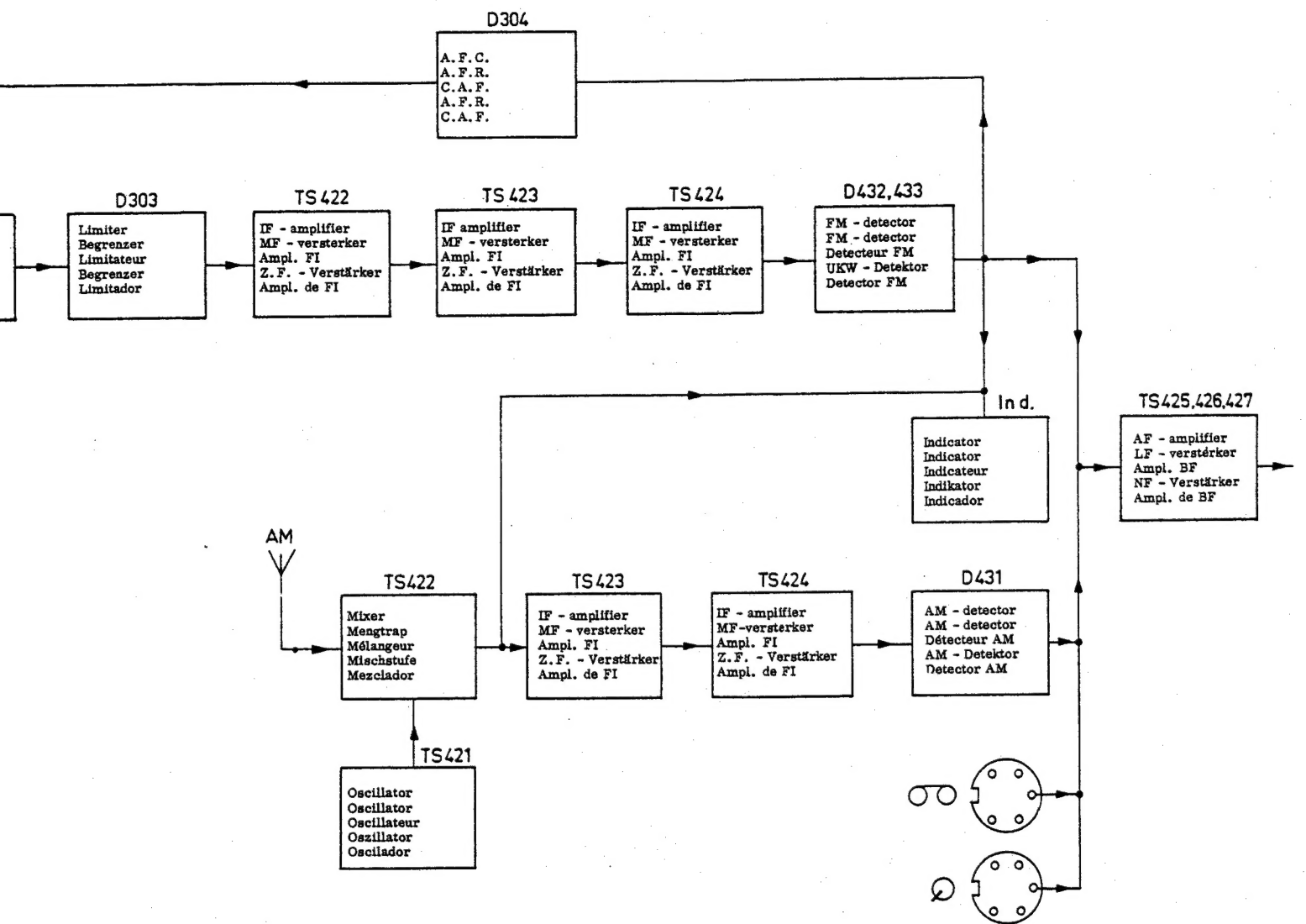


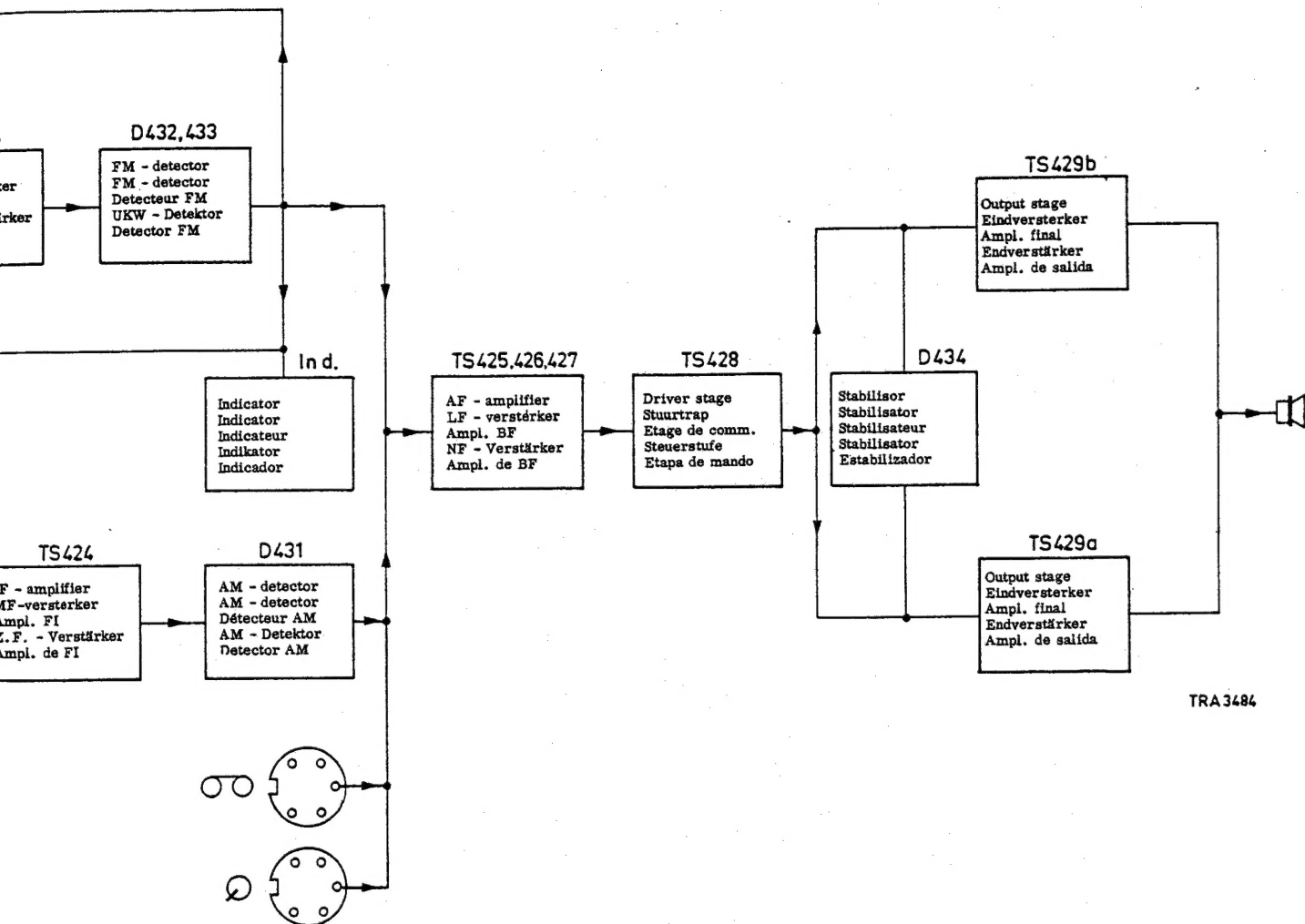
TRA 3485

Voltage adjustment C591, C590

Connect a voltmeter across C591. Adjust for a 1,6 V voltage across C591 with R678. The voltage across C590 should now be about 1.1 V.







TRA 3484

- S -

abcd

S404	4822 158 60075		Ferroceptor, MW/LW
S406	4822 240 20039		Loudspeaker
S440	4822 156 40092	39--	Aerial coil, SW1
S441	4822 156 40093	29--	Aerial coil, SW2
S442	4822 156 40094	40--	Aerial coil, SW3
S443	4822 156 40095	19--	Aerial coil, SW4
S444	4822 156 20197	89--	Aerial series coil, MW
S445	4822 156 40096	09--	Aerial coil, MW
S446	4822 156 20198	99--	Aerial series coil, LW
S447	4822 156 40097	98--	Aerial coil, LW
S448	4822 153 10102	001-	Rejection filter, AM
S449	4822 153 10081	24--	Absorption filter, AM
S453	4822 156 10146	69--	Oscillator coil, SW1
S454	4822 156 10147	59--	Oscillator coil, SW2
S455	4822 156 10148	101-	Oscillator coil, SW3
S456	4822 156 10149	201-	Oscillator coil, SW4
S457	4822 156 10151	301-	Oscillator coil, MW
S458	4822 156 10152	49--	Oscillator coil, LW
S459	4822 526 10024		Ferroxcube bead
S460	4822 157 50045		coil
S461	4822 153 50029	16--	IF coil, FM
S462	4822 153 50029	16--	IF coil, FM
S463	4822 153 50029	16--	IF coil, FM
S464	4822 156 40103	13--	IF coil, AM
S465	4822 153 10082	23--	IF coil, AM
S466	4822 153 50029	16--	IF coil, FM
S467	4822 153 50029	16--	IF coil, FM
S468	4822 153 10083	33--	IF coil, AM
S469	4822 153 10082	23--	IF coil, AM
S470	4822 153 50031	95--	Prim. detection coil, FM
S471	4822 153 50032	06--	Sec. detection coil, FM
S472	4822 153 10084	43--	Detection coil, AM
S473	4822 526 10024		Ferroxcube bead
S474	4822 526 10024		Ferroxcube bead

- C -

C410	4822 125 20021		Variable capacitor
C481	4822 121 50036	250 pF	1 %
C484	4822 125 50029	20 pF	trimmer
C485	4822 121 50072	1250 pF	
C486	4822 125 50029	20 pF	trimmer
C487	4822 121 50423	1270 pF	1 %
C489	4822 125 50029	20 pF	
C490	4822 121 50424	1000 pF	1 %
C492	4822 125 50026	10 pF	trimmer
C493	4822 121 50424	1000 pF	1 %
C494	4822 121 50039	270 pF	5 %
C495	4822 125 50029	20 pF	trimmer
C496	4822 121 50381	120 pF	5 %
C498	4822 125 50026	10 pF	trimmer
C499	4822 125 50026	10 pF	trimmer
C501	4822 125 50029	20 pF	trimmer
C506	4822 121 50432	1500 pF	2,5 %
C510	4822 121 50426	225 pF	1 %
C512	4822 125 50029	20 pF	trimmer
C513	4822 121 50039	270 pF	5 %
C514	4822 121 50037	260 pF	1 %
C516	4822 125 50026	10 pF	trimmer
C517	4822 121 50427	750 pF	5 %
C518	4822 121 50071	1125 pF	1 %
C520	4822 125 50029	20 pF	trimmer
C521	4822 121 50432	1500 pF	10 %

- C -

C522	4822 121 50111	731 pF	1 %
C524	4822 125 50026	10 pF	trimmer
C525	4822 121 50094	4700 pF	5 %
C526	4822 121 50429	642 pF	1 %
C528	4822 125 50029	20 pF	trimmer
C529	4822 121 50431	276 pF	1 %
C531	4822 125 50029	20 pF	trimmer
C538	4822 121 50088	3600 pF	2,5 %
C543	4822 121 50094	4700 pF	5 %
C544	4822 121 50432	1500 pF	10 %
C545	4822 121 50432	1500 pF	10 %
C546	4822 124 20355	10 μ F	25 V
C551	4822 121 50094	4700 pF	5 %
C554	4822 124 20355	10 μ F	25 V
C557	4822 124 20346	4,7 μ F	63 V
C560	4822 121 50096	6800 pF	5 %
C566	4822 124 20341	1 μ F	63 V
C570	4822 124 20353	10 μ F	63 V
C571	4822 124 20343	2,2 μ F	63 V
C574	4822 124 20351	6,8 μ F	40 V
C576	4822 124 20383	1000 μ F	10 V
C577	4822 121 40092	0,33 μ F	
C578	4822 124 20341	1 μ F	63 V
C581	4822 124 20401	330 μ F	4 V
C582	4822 124 20341	1 μ F	63 V
C583	4822 124 20383	100 μ F	10 V
C584	4822 121 40098	0,39 μ F	
C585	4822 124 20377	68 μ F	16 V
C590	4822 124 20377	68 μ F	16 V
C591	4822 124 20383	100 μ F	10 V

- R -

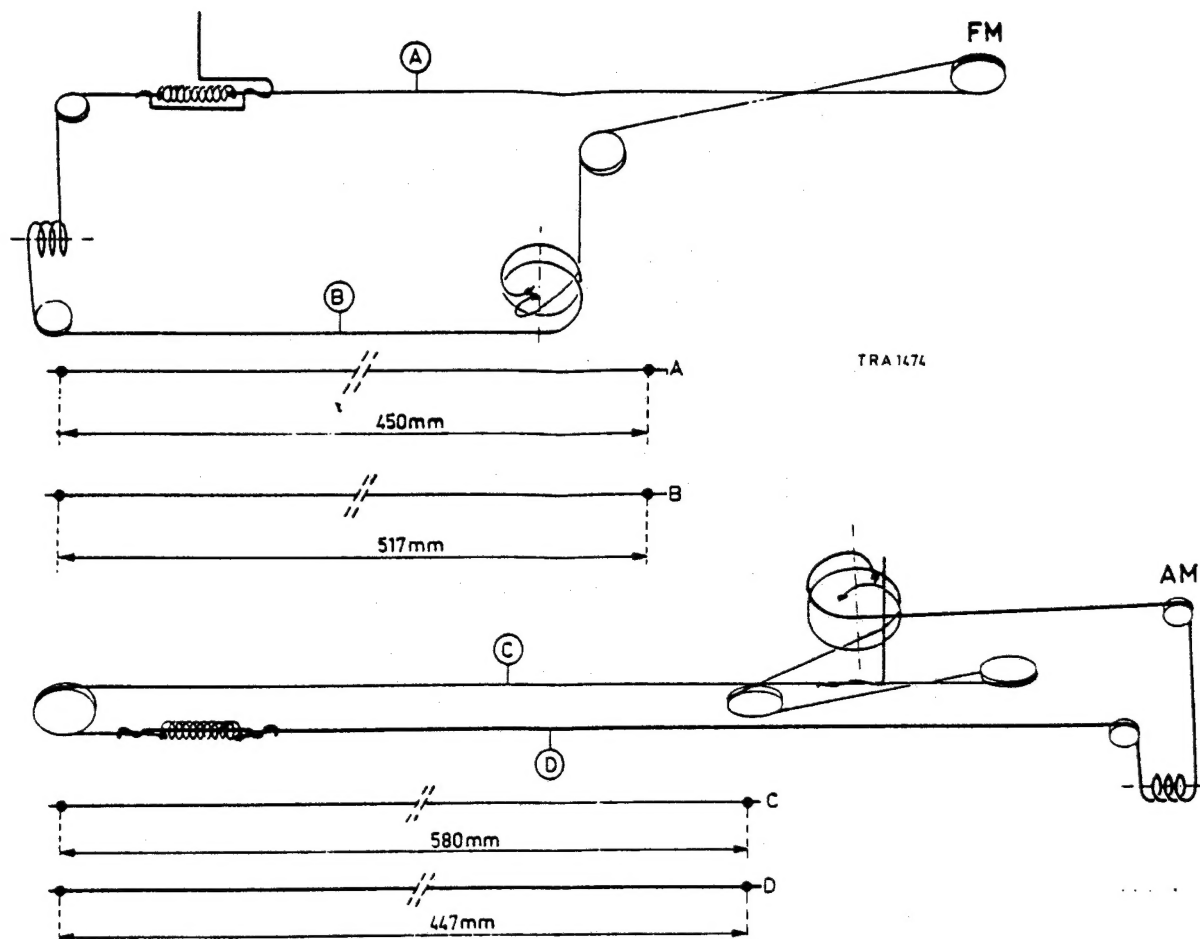
R413	4822 101 30053	1 k Ω	Potentiometer
R414	4822 101 30039	100 k Ω	Potentiometer
R416	4822 101 30074	5 k Ω +17 k Ω	Potentiometer
R601	4822 116 20003		VDR
R618	4822 100 10024	10 k Ω	Adj. potentiometer
R626	4822 100 10025	4700 Ω	Adj. potentiometer
R631	4822 100 10023	470 Ω	Adj. potentiometer
R667	4822 116 30016	130 Ω	NTC
R669	4822 100 10026	220 Ω	Adj. potentiometer
R672	4822 116 60004	1,2 Ω	0,125 W
R673	4822 116 60004	1,2 Ω	0,125 W
R677	4822 116 20094		VDR
R678	4822 100 10023	470 Ω	Adj. potentiometer
R683	4822 116 60004	1,2 Ω	0,125 W
R684	4822 116 60004	1,2 Ω	0,125 W

- TS -

TS301	4822 130 40385	
TS302	4822 130 40254	
TS421	4822 130 40254	
TS422	4822 130 40384	
TS423	4822 130 40385	
TS424	4822 130 40252	
TS425	4822 130 40236	
TS426	4822 130 40235	
TS427	4822 130 40096	
TS428	4822 130 40095	
TS429a	4822 130 40319	
TS429b		

- D -

D303	4822 130 40229	
D304	4822 130 30272	
D431	4822 130 40229	
D432	4822 130 30312	
D433		
D434	4822 130 30189	



Cabinet

Ornamental front	4822 423 50075
Cover for scale	4822 423 50158
Side panel (right)	4822 423 20037
Side panel (left)	4822 423 20038
Bottom	4822 423 20036
Rear cover	4822 422 50016
Slide in rear cover for locking	4822 411 60053
Handle	4822 498 40267
Screw fixing handle	4822 502 10411
Philite disc fixing foot	4822 532 60033
Leg (metal)	4822 462 10023
Buffer for leg	4822 462 40062
Frame aerial	4822 303 40031
Hinge for cover and frame-aerial	4822 417 10041
Plate fixing hinge	4822 691 10027
Telescopic aerial	4822 303 30021
Screw fixing aerial	4822 502 10412
Scale assembly	4822 334 50071
Bracket fix. frame aerial	4822 404 10038

Chassis

Pulley (9,5 mm)	4822 528 80087
Pulley (17,5 mm)	4822 528 80086
Drum in driving	4822 528 40052
On-off indicator	4822 404 10029
Connection bracket for slide of SK-H	4822 404 10021
Connection bracket for slide of SK-G	4822 404 20024
Connection bracket for slide of SK-A ÷ F	4822 404 10025
Speed fix on slide of SK-A ÷ H	4822 492 60264
Drive cord	4822 321 30101
Connection strip with sockets	4822 267 20109
Scale-lamp holder	4822 255 10007

Battery holder

Assembly complete	4822 256 60022
Spiral spring-large	4822 492 50322
Spiral spring-small	4822 492 50375

Sockets

Aerial	4822 268 20002
PU + Recorder	4822 267 40039
Earphone	4822 420 40041
Nut fix. socket earphone	4822 505 10043
Car aerial	4822 267 30086
Ext. supply	4822 265 20051

Switch assemblies

Push button unit (SK-L, M, N)	4822 276 30062
Push button unit, wave ranges	4822 276 80014
SK-A (SW1)	4822 277 30099
SK-B (SW2)	4822 277 30101
SK-C-D (SW3-SW4)	4822 277 30102
SK-E (MW)	4822 277 30103
SK-F (LW)	4822 277 30104
SK-G (aerial)	4822 277 30105
SK-H (FM)	4822 277 30098
Slide of SK-A	4822 278 20107
Slide of SK-B	4822 278 20108
Slide of SK-C-D	4822 278 20109
Slide of SK-E	4822 278 20111
Slide of SK-F	4822 278 20112
Slide of SK-G	4822 278 20113
Slide of SK-H	4822 278 20071
Contact strip (SK-L, M, N)	4822 278 80069
Contact slide (SK-L)	4822 278 30029
Contact slide (SK-M, N)	4822 278 30006
Contact strip (SK-K, P)	4822 278 50029
Contact slide (SK-K, P)	4822 278 30018

Push-buttons

AFC-battery check - scale light	4822 410 20136
PU-off-wave ranges	4822 410 20297

Knobs

Tuning FM, AM	4822 413 50679
Volume-high-low-fine tuning	4822 413 30384
FM tuner	4822 210 30003
Tuning indicator	4822 347 10004
Lamp (LA-408)	4822 134 40005